



CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

An ISO 9001:2008 Certified Company

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005



Job No.: CTCE/BBMP/NNS/W.No.12/818c/CEMENT/2018-19

Date: 05.12.2018

TEST REPORT ON CEMENT

* Customer	:	Asst. Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	:	Mr. N.N. Sreenivasaiah, #2405, Sahakaranagara E Block, Bangalore – 560 092.
* Name of Work	:	Improvements of roads and drains at Balaji Layout and surroundings at Kodigehalli Ward N0.08, BBMP, Bangalore.
* Reference	:	AEE/KSD/PR/175/2018-19 Dated: 12.12.2018
* Sample ID	:	Cement
Sample Received on	:	03.12.2018
Period of Testing	:	03.12.2018 to 05.12.2018



The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988 (RA-2014)	27.50 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	130 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	370 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartier Method	IS-4031 (Part-3) 1988 (RA-2014)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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Job No.: CTCE/BBMP/NNS/W.No.12/818c/SAND-Gradation/2018-19

05.12.2018

TEST REPORT ON SIEVE ANALYSIS OF FINE AGGREGATES

* Customer	: Asst. Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	: Mr. N.N. Sreenivasaiah, #2405, Sahakaranagara E Block, Bangalore – 560 092.
* Name of Work	: Improvements of roads and drains at Balaji Layout and surroundings at Kodigehalli Ward N0.08, BBMP, Bangalore.
* Reference	: AEE/KSD/PR/175/2018-19 Dated: 12.12.2018
* Sample ID	: Fine Aggregates (M - Sand)
Technical Reference	: IS : 2386 (Part 1) - 1963 (RA-2011)
Sample Received On	: 03.12.2018
Date of Testing	: 05.12.2018



Total Wt. of Aggregates in gms = 1000

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	97.50	90-100	90-100	90-100	95-100
2.36	81.20	60-95	75-100	85-100	95-100
1.18	60.20	30-70	55-90	75-100	90-100
600 Micron	44.40	15-34	35-59	60-79	80-100
300 Micron	21.90	5-20	8-30	12-40	15-50
150 Micron	5.40	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-II specific limits.

Note 1:

For crushed stone sands, the permissible limit on 150-micron IS Sieve is increased to 20 percent. This does not affect the 5 percent allowance permitted in 4.3 of IS 383 applying to other sieve sizes.

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Job No.: CTCE/BBMP/NNS/W.No.12/818c/AGG/GR/2018-19

05.12.2018

TEST REPORT ON SIEVE ANALYSIS OF COARSE AGGREGATES

* Customer	: Asst. Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	: Mr. N.N. Sreenivasaiah, #2405, Sahakaranagara E Block, Bangalore – 560 092.
* Name of Work	: Improvements of roads and drains at Balaji Layout and surroundings at Kodigehalli Ward N0.08, BBMP, Bangalore.
* Reference	: AEE/KSD/PR/175/2018-19 Dated: 12.12.2018
* Sample ID	: Coarse Aggregates (40mm)
Technical Reference	: IS : 2386 (Part 1) -1963 (RA-2011)
Sample Received on	: 03.12.2018
Date of Testing	: 05.12.2018



Total Wt. of Aggregates in gms= 5000

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	97.76	95-100	85-100
20	41.50	30-70	0-20
10	20.90	10-35	0-5
4.75	3.78	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under graded specific limits.

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06.12.2018

Job No.: CTCE/BBMP/NNS/W.No.08/Steel/2018-19

TEST REPORT ON REINFORCEMENT STEEL

* Customer	: Asst. Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	: Mr. N.N. Sreenivasaiah, #2405, Sahakaranagara E Block, Bangalore - 560 092.
* Name of work	: Improvements of roads and drains at Balaji Layout and surroundings at Kodigehalli Ward N0.08, BBMP, Bangalore.
* Reference	: AEE/KSD/PR/175/2018-19 Dated: 12.12.2018
* Samples ID	: 8mm Bar
Technical Reference	: IS: 1786-2008
Date of Testing	: 06.12.2018



Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	8	0.39	513	554	13.1	O.K	O.K

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Job No.: CTCE/BBMP/NNS/W.No.08/Steel/2018-19

06.12.2018

TEST REPORT ON REINFORCEMENT STEEL

* Customer	: Asst. Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	: Mr. N.N. Sreenivasaiah, #2405, Sahakaranagara E Block, Bangalore – 560 092.
* Name of work	: Improvements of roads and drains at Balaji Layout and surroundings at Kodigehalli Ward N0.08, BBMP, Bangalore.
* Reference	: AEE/KSD/PR/175/2018-19 Dated: 12.12.2018
* Samples ID	: 10 mm Bar
Technical Reference	: IS: 1786-2008
Date of Testing	: 06.12.2018



Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	10	0.62	516	557	13.3	O.K	O.K

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Job No.: CTCE/BBMP/NNS/W.No.12/818c/Cube/2018-19

23.01.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	: Asst. Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	: Mr. N.N. Sreenivasaiah, #2405, Sahakaranagara E Block, Bangalore – 560 092.
* Name of the work	: Improvements of roads and drains at Balaji Layout and surroundings at Kodigehalli Ward N0.08, BBMP, Bangalore.
* Reference	: AEE/KSD/PR/175/2018-19 Dated: 12.12.2018
* Sample ID	: RCC Drain Concrete
Technical Reference	: IS: 516-1959 (RA-2013)
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm ²
* Grade of Concrete	: M ₂₀
Compressive Strength as on	: 28 th day
Sample Received on	: 23.01.2019



Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	26.12.2018	23.01.2019	8.127	478.3	21.26
2	26.12.2018	23.01.2019	8.269	510.3	22.68
3	26.12.2018	23.01.2019	8.339	520.4	23.13

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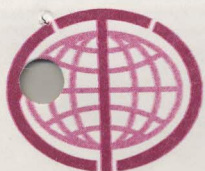
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* Sample ID	: RCC Drain Concrete
Technical Reference	: IS: 516-1959 (RA-2013)
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm ²
* Grade of Concrete	: M ₂₀
Compressive Strength as on	: 28 th day
Sample Received on	: 23.01.2019



Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	26.12.2018	23.01.2019	8.398	475.9	21.15
2	26.12.2018	23.01.2019	8.405	515.6	22.92
3	26.12.2018	23.01.2019	8.225	528.9	23.51

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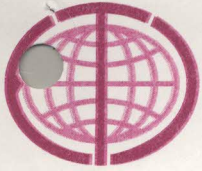
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* Reference	: AEE/KSD/PR/175/2018-19 Dated: 12.12.2018
* Sample ID	: RCC Drain Concrete
Technical Reference	: IS: 516-1959 (RA-2013)
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm ²
* Grade of Concrete	: M ₂₀
Compressive Strength as on	: 28 th day
Sample Received on	: 23.01.2019



Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	26.12.2018	23.01.2019	8.099	480.5	21.36
2	26.12.2018	23.01.2019	8.178	513.4	22.82
3	26.12.2018	23.01.2019	8.247	531.0	23.60

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23.01.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	: Asst. Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	: Mr. N.N. Sreenivasaiah, #2405, Sahakaranagara E Block, Bangalore – 560 092.
* Name of the work	: Improvements of roads and drains at Balaji Layout and surroundings at Kodigehalli Ward N0.08, BBMP, Bangalore.
* Reference	: AEE/KSD/PR/175/2018-19 Dated: 12.12.2018
* Sample ID	: RCC Drain Concrete
Technical Reference	: IS: 516-1959 (RA-2013)
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm ²
* Grade of Concrete	: M ₂₀
Compressive Strength as on	: 28 th day
Sample Received on	: 23.01.2019



Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	26.12.2018	23.01.2019	8.117	498.9	22.17
2	26.12.2018	23.01.2019	8.200	517.4	23.00
3	26.12.2018	23.01.2019	8.380	525.5	23.36

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Job No.: CTCE/BBMP/NNS/W.No.12/818c/Cube/2018-19

25.01.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	: Asst. Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	: Mr. N.N. Sreenivasaiah, #2405, Sahakaranagara E Block, Bangalore – 560 092.
* Name of the work	: Improvements of roads and drains at Balaji Layout and surroundings at Kodigehalli Ward N0.08, BBMP, Bangalore.
* Reference	: AEE/KSD/PR/175/2018-19 Dated: 12.12.2018
* Sample ID	: RCC Drain Concrete
Technical Reference	: IS: 516-1959 (RA-2013)
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm ²
* Grade of Concrete	: M ₂₀
Compressive Strength as on	: 28 th day
Sample Received on	: 25.01.2019



Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	28.12.2018	25.01.2019	8.127	483.5	21.49
2	28.12.2018	25.01.2019	8.223	532.6	23.67
3	28.12.2018	25.01.2019	8.333	516.4	22.95

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25.01.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	: Asst. Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	: Mr. N.N. Sreenivasaiah, #2405, Sahakaranagara E Block, Bangalore – 560 092.
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* Sample ID	: RCC Drain Concrete
Technical Reference	: IS: 516-1959 (RA-2013)
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm ²
* Grade of Concrete	: M ₂₀
Compressive Strength as on	: 28 th day
Sample Received on	: 25.01.2019



Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	28.12.2018	25.01.2019	8.165	478.3	21.26
2	28.12.2018	25.01.2019	8.290	493.8	21.95
3	28.12.2018	25.01.2019	8.332	508.2	22.59

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Job No.: CTCE/BBMP/NNS/W.No.12/818c/Cube/2018-19

25.01.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	: Asst. Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	: Mr. N.N. Sreenivasaiah, #2405, Sahakaranagara E Block, Bangalore – 560 092.
* Name of the work	: Improvements of roads and drains at Balaji Layout and surroundings at Kodigehalli Ward N0.08, BBMP, Bangalore.
* Reference	: AEE/KSD/PR/175/2018-19 Dated: 12.12.2018
* Sample ID	: RCC Drain Concrete
Technical Reference	: IS: 516-1959 (RA-2013)
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm ²
* Grade of Concrete	: M ₂₀
Compressive Strength as on	: 28 th day
Sample Received on	: 25.01.2019



Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	28.12.2018	25.01.2019	8.137	510.4	22.68
2	28.12.2018	25.01.2019	8.205	515.6	22.92
3	28.12.2018	25.01.2019	8.390	521.9	23.20

*Information is furnished by the Customer/Representative.

Note:

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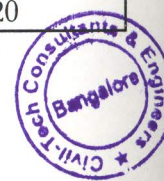
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Asst. Executive Engineer
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* Agency	: Mr. N.N. Sreenivasaiah, #2405, Sahakaranagara E Block, Bangalore – 560 092.
* Name of the work	: Improvements of roads and drains at Balaji Layout and surroundings at Kodigehalli Ward N0.08, BBMP, Bangalore.
* Reference	: AEE/KSD/PR/175/2018-19 Dated: 12.12.2018
* Sample ID	: RCC Drain Concrete
Technical Reference	: IS: 516-1959 (RA-2013)
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm ²
* Grade of Concrete	: M ₂₀
Compressive Strength as on	: 28 th day
Sample Received on	: 25.01.2019



Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	28.12.2018	25.01.2019	8.408	475.5	21.13
2	28.12.2018	25.01.2019	8.250	515.6	22.92
3	28.12.2018	25.01.2019	8.358	523.8	23.28

*Information is furnished by the Customer/Representative.

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Handwritten signature
Assistant Executive Engineer
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Job No.: CTCE/BBMP/NNS/W.No.12/818c/Cube/2018-19

26.01.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	: Asst. Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	: Mr. N.N. Sreenivasaiah, #2405, Sahakaranagara E Block, Bangalore – 560 092.
* Name of the work	: Improvements of roads and drains at Balaji Layout and surroundings at Kodigehalli Ward N0.08, BBMP, Bangalore.
* Reference	: AEE/KSD/PR/175/2018-19 Dated: 12.12.2018
* Sample ID	: RCC Drain Concrete
Technical Reference	: IS: 516-1959 (RA-2013)
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm ²
* Grade of Concrete	: M ₂₀
Compressive Strength as on	: 28 th day
Sample Received on	: 26.01.2019



Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	29.12.2018	26.01.2019	8.358	475.5	21.13
2	29.12.2018	26.01.2019	8.408	499.8	22.21
3	29.12.2018	26.01.2019	8.225	518.7	23.05

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	: Asst. Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
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* Reference	: AEE/KSD/PR/175/2018-19 Dated: 12.12.2018
* Sample ID	: RCC Drain Concrete
Technical Reference	: IS: 516-1959 (RA-2013)
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm ²
* Grade of Concrete	: M ₂₀
Compressive Strength as on	: 28 th day
Sample Received on	: 26.01.2019



Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	29.12.2018	26.01.2019	8.108	495.3	22.01
2	29.12.2018	26.01.2019	8.210	513.6	22.83
3	29.12.2018	26.01.2019	8.339	522.8	23.24

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Job No.: CTCE/BBMP/NNS/W.No.12/818c/Cube/2018-19

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	: Asst. Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	: Mr. N.N. Sreenivasaiah, #2405, Sahakaranagara E Block, Bangalore – 560 092.
* Name of the work	: Improvements of roads and drains at Balaji Layout and surroundings at Kodigehalli Ward N0.08, BBMP, Bangalore.
* Reference	: AEE/KSD/PR/175/2018-19 Dated: 12.12.2018
* Sample ID	: RCC Drain Concrete
Technical Reference	: IS: 516-1959 (RA-2013)
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm ²
* Grade of Concrete	: M ₂₀
Compressive Strength as on	: 28 th day
Sample Received on	: 26.01.2019



Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	29.12.2018	26.01.2019	8.127	499.3	22.19
2	29.12.2018	26.01.2019	8.325	523.2	23.25
3	29.12.2018	26.01.2019	8.296	508.9	22.62

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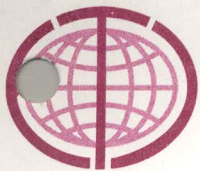


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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

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* Name of the work	: Improvements of roads and drains at Balaji Layout and surroundings at Kodigehalli Ward N0.08, BBMP, Bangalore.
* Reference	: AEE/KSD/PR/175/2018-19 Dated: 12.12.2018
* Sample ID	: RCC Drain Concrete
Technical Reference	: IS: 516-1959 (RA-2013)
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm ²
* Grade of Concrete	: M ₂₀
Compressive Strength as on	: 28 th day
Sample Received on	: 26.01.2019



Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	29.12.2018	26.01.2019	8.279	495.5	22.02
2	29.12.2018	26.01.2019	8.311	515.8	22.92
3	29.12.2018	26.01.2019	8.456	480.0	21.33

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Job No.: CTCE/BBMP/NNS/W.No.12/818c/CC Solid Block/2018-19

15.12.2018

TEST REPORT ON BLOCK DENSITY OF SOLID CONCRETE BLOCKS

* Customer	: Asst. Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	: Mr. N.N. Sreenivasaiah, #2405, Sahakaranagara E Block, Bangalore - 560 092.
* Name of Work	: Improvements of roads and drains at Balaji Layout and surroundings at Kodigehalli Ward N0.08, BBMP, Bangalore.
* Reference	AEE/KSD/PR/175/2018-19 Dated: 12.12.2018
Technical Reference	IS: 2185 (Part-1) - 2005 (RA-2010)
Size of Blocks	: 400mm x 150mm x 200mm
Cross Sectional Area	: 60000 mm ²
No. of Blocks Tested	: 03
Sample Received on	: 13.12.2018
Date of Testing	: 15.12.2018

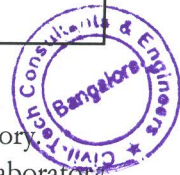


Sl.No.	Size of Block in mm	Mass of Block in Kg	Volume of Specimen in cm ³	Density in Kg/m ³	Average Density Kg/m ³
1	400x150X200	26.355	12000.00	2196.25	2179.44
2	400x150X200	25.980	12000.00	2165.00	
3	400x150X200	26.125	12000.00	2177.08	

*Information is furnished by the Customer/Representative.

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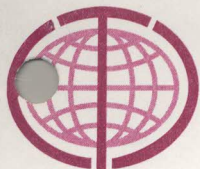


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Job No.: CTCE/BBMP/NNS/W.No.12/818c/CC Solid Block/2018-19

15.12.2018

TEST REPORT ON COMPRESSIVE STRENGTH OF SOLID CONCRETE BLOCKS

* Customer	: Asst. Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	: Mr. N.N. Sreenivasaiah, #2405, Sahakaranagara E Block, Bangalore – 560 092.
* Name of Work	: Improvements of roads and drains at Balaji Layout and surroundings at Kodigehalli Ward N0.08, BBMP, Bangalore.
* Reference	AEE/KSD/PR/175/2018-19 Dated: 12.12.2018
Technical Reference	: IS: 2185 (Part-1) - 2005 (RA-2010)
Size of Blocks	: 400mm x 150mm x 200mm
Cross Sectional Area	: 60000 mm ²
No. of Blocks Tested	: 08
Sample Received on	: 13.12.2018
Date of Testing	: 15.12.2018



Sl.No.	Block ID	Wt. in Kg	Failure load (KN)	Compressive strength (N/mm ²)	Requirement as per IS: 2185 (Part-1) - 2005 (RA-2010)
1	Block 1	26.80	258.9	4.32	Minimum required Compressive Strength of Individual Units 4.00 N/mm ²
2	Block 2	25.90	251.2	4.19	
3	Block 3	26.30	250.8	4.18	
4	Block 4	25.15	259.6	4.33	
5	Block 5	26.85	252.4	4.21	
6	Block 6	24.30	251.3	4.19	
7	Block 7	25.65	251.8	4.20	
8	Block 8	26.90	248.6	4.14	

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Imp in 12/18

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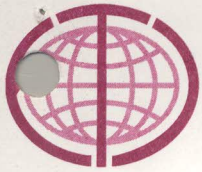
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Job No.: CTCE/BBMP/NNS/W.No.12/818c/Cube/2018-19

28.01.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	: Asst. Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	: Mr. N.N. Sreenivasaiah, #2405, Sahakaranagara E Block, Bangalore – 560 092.
* Name of the work	: Improvements of roads and drains at Balaji Layout and surroundings at Kodigehalli Ward N0.08, BBMP, Bangalore.
* Reference	: AEE/KSD/PR/175/2018-19 Dated: 12.12.2018
* Sample ID	: Cement Concrete
Technical Reference	: IS: 516-1959 (RA-2013)
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm ²
* Grade of Concrete	: M ₁₅
Compressive Strength as on	: 28 th day
Sample Received on	: 28.01.2019



Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	31.12.2018	28.01.2019	8.132	375.4	16.68
2	31.12.2018	28.01.2019	8.225	385.4	17.13
3	31.12.2018	28.01.2019	8.310	408.6	18.10

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Job No.: CTCE/BBMP/NNS/W.No.12/818c/Precast slab /2018-19

07.01.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CORE

* Customer	:	Asst. Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	:	Mr. N.N. Sreenivasaiah, #2405, Sahakaranagara E Block, Bangalore – 560 092.
* Name of work	:	Improvements of roads and drains at Balaji Layout and surroundings at Kodigehalli Ward N0.08, BBMP, Bangalore.
* Reference	:	AEE/KSD/PR/175/2018-19 Dated: 12.12.2018
* Sample ID	:	Precast slab (100mm thick)
* Grade of Concrete	:	M ₂₀
Technical Reference	:	IS:516-1959 (RA- 2013), SP-24:1983.
Sample Received on	:	05.01.2019
Date of Testing	:	07.01.2019



Sl. No	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m ³)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm ²)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm ²)	Equivalent Cube Compressive Strength (N/mm ²)
1	50.00	80.00	0.404	2571.94	1.60	0.957	29.65	15.10	16.31	17.05	21.31
2	50.00	83.00	0.413	2534.21	1.66	0.963	33.85	17.24	18.62	17.94	22.42
3	50.00	84.00	0.420	2546.48	1.68	0.965	34.60	17.62	19.03	18.37	22.97

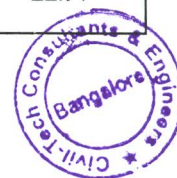
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CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

An ISO 9001:2008 Certified Company

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005



Job No.: CTCE/BBMP/NNS/W.No.12/818c/SAND-Gradation/2018-19

07.01.2019

TEST REPORT ON SIEVE ANALYSIS OF FINE AGGREGATES

* Customer	: Asst. Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	: Mr. N.N. Sreenivasaiah, #2405, Sahakaranagara E Block, Bangalore – 560 092.
* Name of Work	: Improvements of roads and drains at Balaji Layout and surroundings at Kodigehalli Ward N0.08, BBMP, Bangalore.
*Reference	: AEE/KSD/PR/175/2018-19 Dated: 12.12.2018
*Sample ID	: Fine Aggregates (Sand Pointing)
Technical Reference	: IS : 1542 - 1992 (RA-2014)
Sample Received on	: 05.01.2019
Date of Testing	: 07.01.2019



Total Wt. of Aggregates in gms 1000

Is Sieved Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS : 1542 - 1992 (RA-2014) Clause 5.1
10	100	100
4.75	99.00	95-100
2.36	97.70	95-100
1.18	96.20	90-100
600 Micron	91.00	80-100
300 Micron	43.50	20-65
150 Micron	11.50	0-15

* Information is furnished by the Customer/Representative

Remarks : This tested sample satisfies requirement.

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 30 days from the date of testing.

Signature
208

Signature
Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

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